

AMENDMENTS TO THE CLAIMS

Listing of claims:

1. (Currently Amended) A procedure for the control of a respirator device, in which one can set at least two different pressure levels for a breathable gas supply, comprising:
capturing at least one respirator-treatment parameter by measurement technique; and
evaluating the at least one respirator-treatment parameter for the control of a respirator-treatment pressure, wherein the at least one respirator-treatment parameter is modified as a function of a pattern recognition, and wherein, in order to carry out the pattern recognition, a time-wise evolution of the at least one respirator-treatment parameter is captured, at least at intervals, and is analyzed with respect to typical evolution patterns;
based on a pattern recognition, analyzing at least one characteristic of the respirator device selected from the group consisting of defect, reduced performance, leak in the region of the apparatus or in the region of a hose connection; and
when the analyzing yields a result indicating a functional disturbance or an increased risk of device failure, generating a signal indicative of the functional disturbance or the risk of device failure;
wherein the two different pressure levels of the respirator device are higher than the air pressure of the environment to support a device function in CPAP therapy.

2. (Previously Presented) A procedure according to claim 1, wherein an existing pressure level for breathing support is overlaid, at least temporarily, with a stimulating stream oscillating at a defined frequency.

3. (Previously Presented) A procedure according to claim 1, wherein after a selective evaluation of an oscillatory pressure amplitude, occurring with a frequency of a stimulating stream in the air delivery of a patient, corresponding to a breathing resistance of the patient, a selection of the respective pressure amplitude is carried out.

4. (Cancelled).

5. (Previously Presented) A procedure according to claim 3, wherein at least one electrical signal is evaluated during the pattern recognition.
6. (Previously Presented) A procedure according to claim 1, wherein a physical signal is evaluated during the pattern recognition.
7. (Previously Presented) A procedure according to claim 3, wherein a derivation of classes of errors is implemented in a context of the pattern recognition.
8. (Previously Presented) A procedure according to claim 1, wherein an OPS signal (Oscillating Pressure Signal) is evaluated.
9. (Previously Presented) A procedure according to claim 1, wherein a static pressure signal is evaluated.
10. (Previously Presented) A procedure according to claim 1, wherein a pressure variation is evaluated.
11. (Previously Presented) A procedure according to claim 1, wherein a flow signal is evaluated.
12. (Previously Presented) A procedure according to claim 1, wherein a signal proportional to at least one of the flow signal and a pressure-dependent signal is evaluated.
13. (Previously Presented) A procedure according to claim 1, wherein an electrical-drive parameter of a compressed-gas supply is evaluated.
14. (Previously Presented) A procedure according to claim 1, wherein, in the pattern recognition, distinctive form features are evaluated.

15. (Previously Presented) A procedure according to claim 1, wherein, in the pattern recognition, distinctive time features are evaluated.

16. (Previously Presented) A procedure according to claim 1, wherein, following the pattern recognition, a class assignment is carried out.

17.-34. (Canceled).